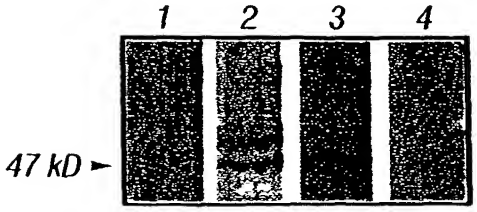

FIG. 1A

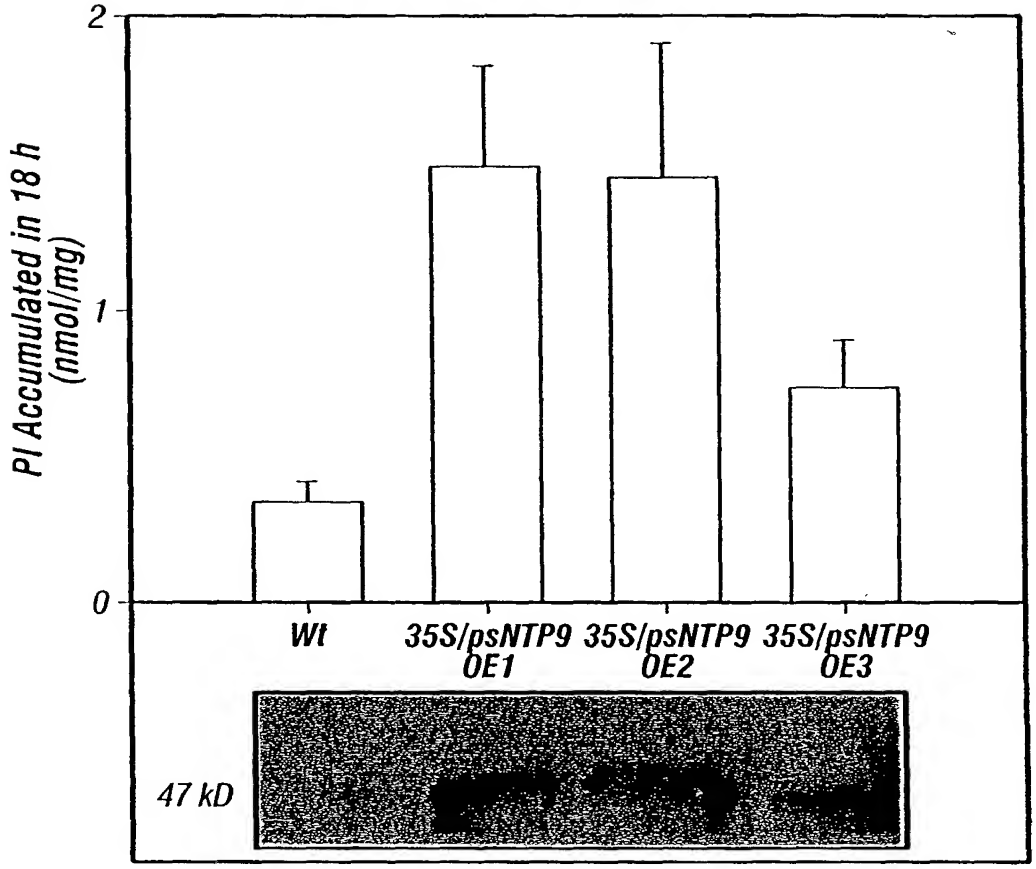

FIG. 1B

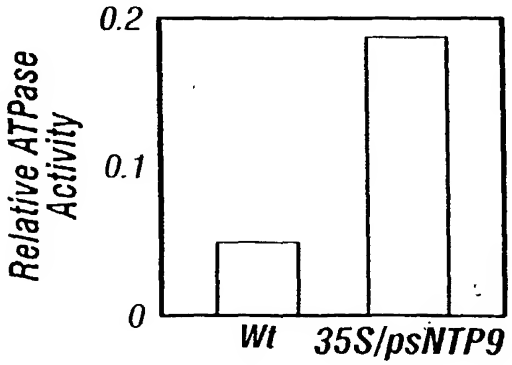

FIG. 1C

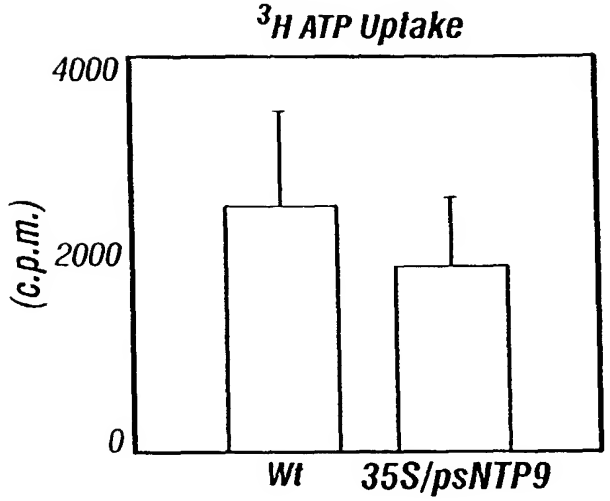

FIG. 2A

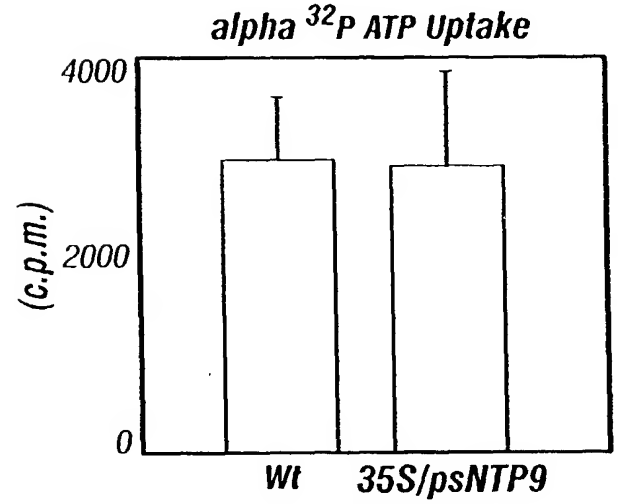

FIG. 2B

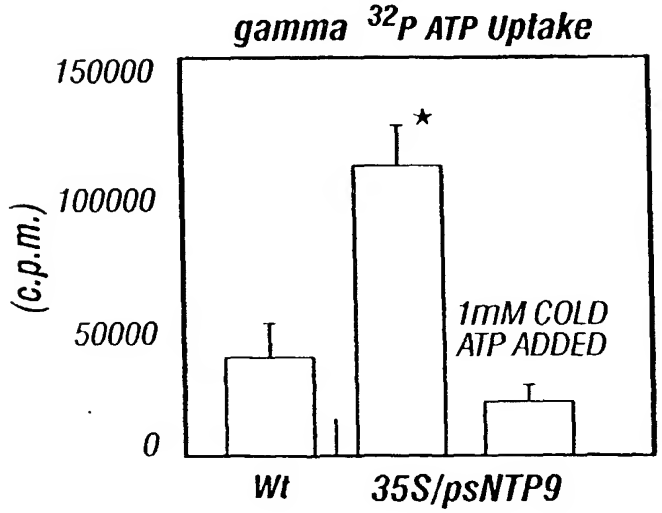

FIG. 2C

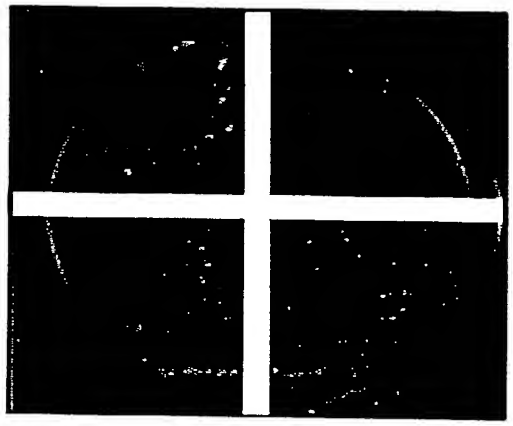

FIG. 3A

FIG. 3B

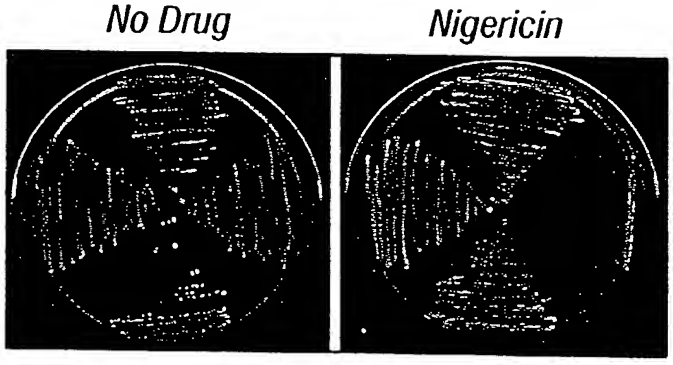

FIG. 3C

FIG. 3D

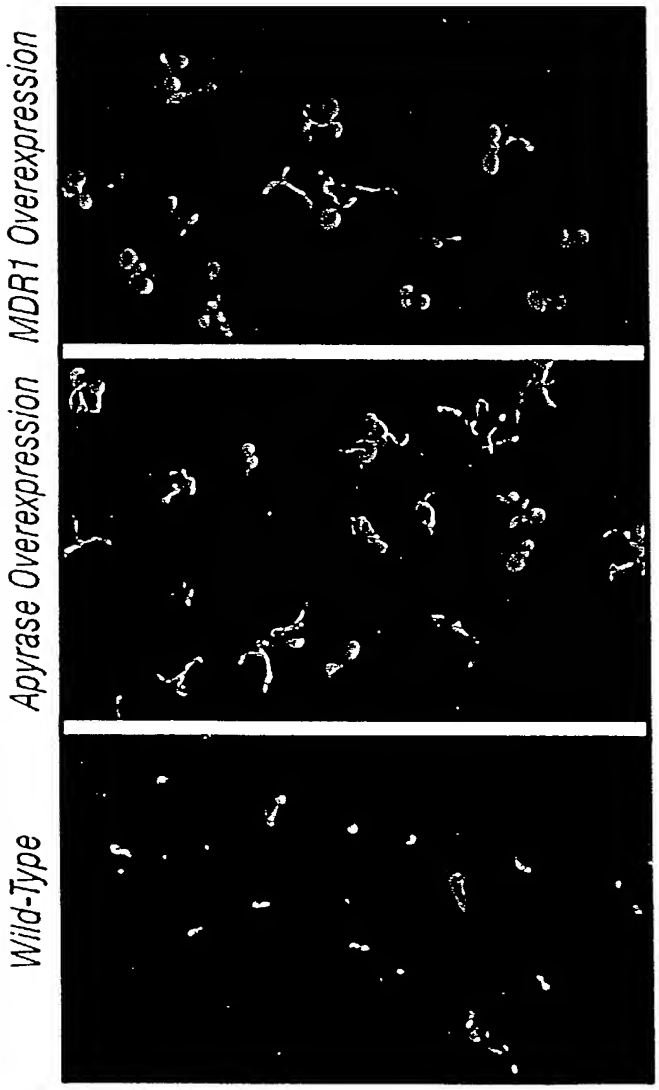

FIG. 4A

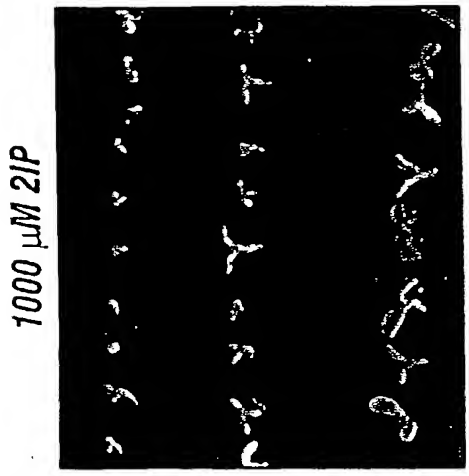

FIG. 4B-2

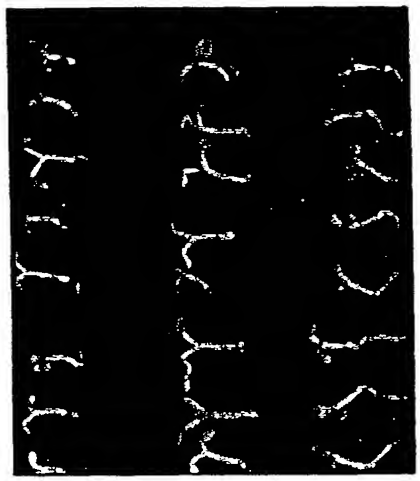

FIG. 4B-3

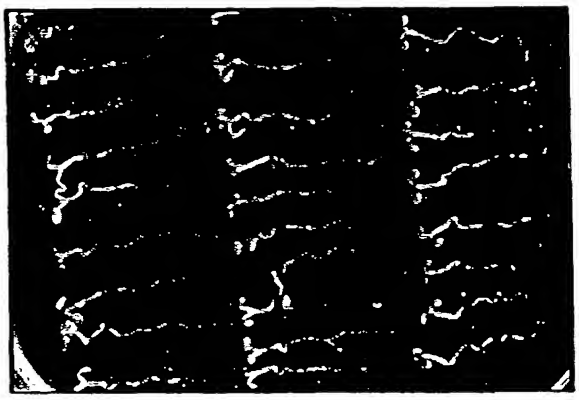

FIG. 4B-1

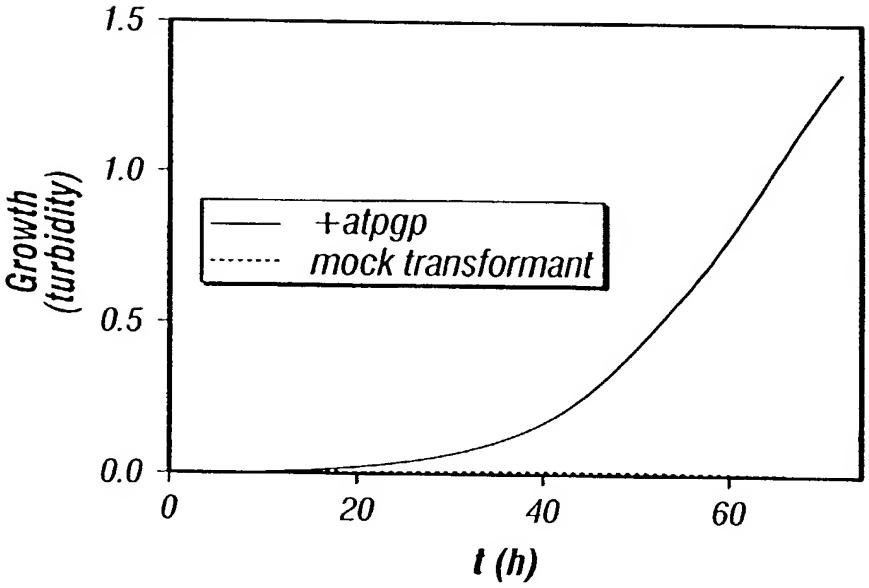
1.5
1.0
0.5
0.0
Growth (turbidity)
+atpgp
mock transformant
0
20
40
60
t (h)

FIG. 5A

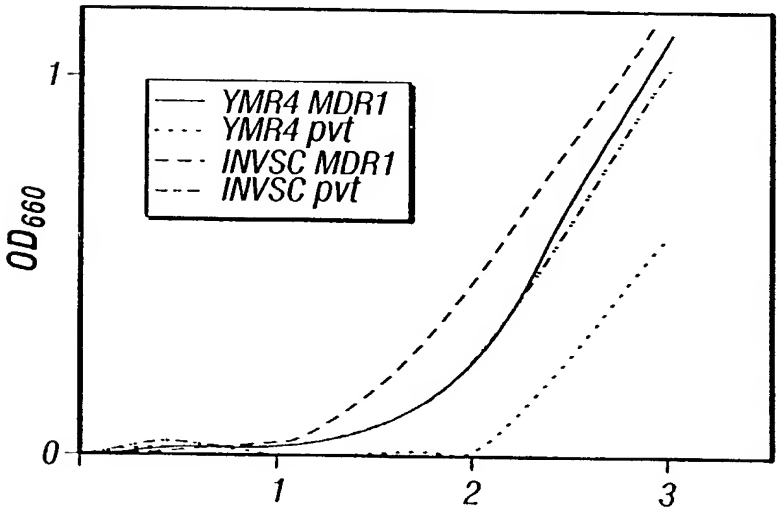
1
0
OD_{660}
YMR4 MDR1
YMR4 pvt
INVSC MDR1
INVSC pvt
1
2
3

FIG. 5B

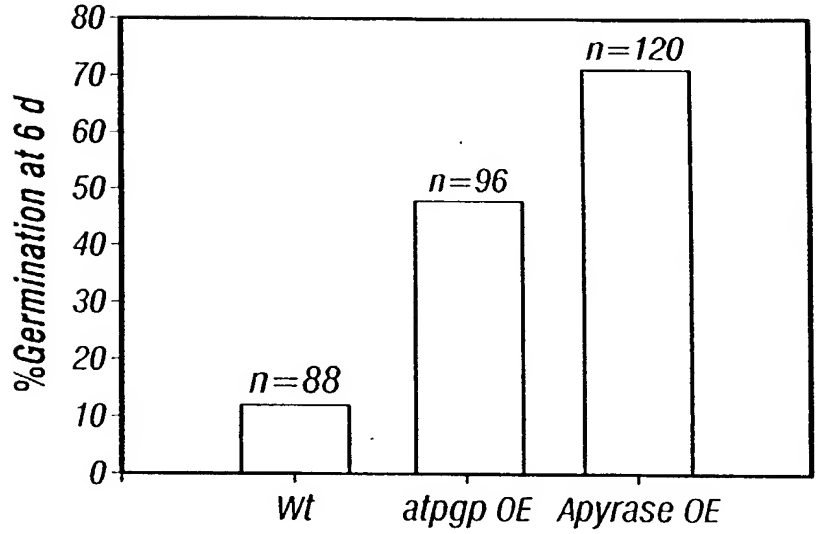
%Germination at 6 d
80
70
60
50
40
30
20
10
0
n=88
n=96
n=120
Wt
atpgp OE
Apyrase OE

FIG. 6

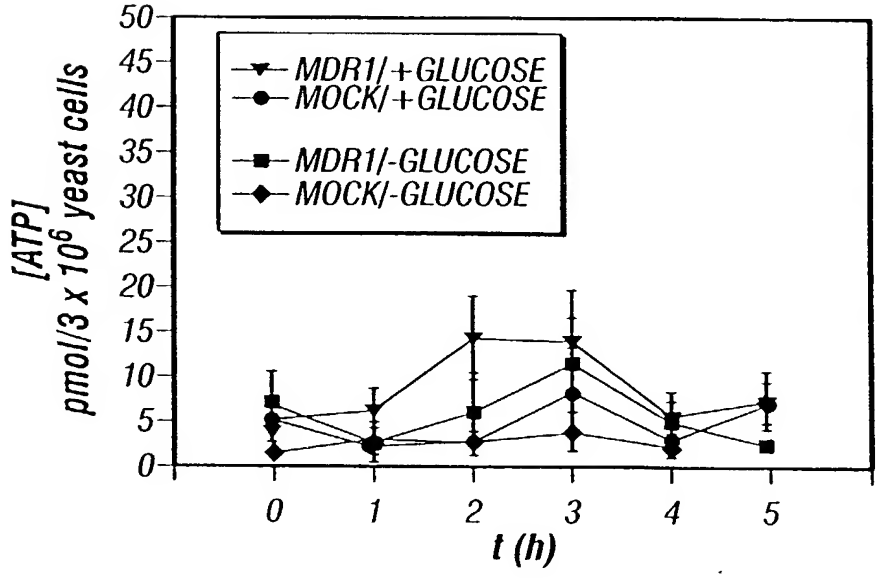
[ATP]
pmol/3 x 10^6 yeast cells
50
45
40
35
30
25
20
15
10
5
0
MDR1/+GLUCOSE
MOCK/+GLUCOSE
MDR1/-GLUCOSE
MOCK/-GLUCOSE
0
1
2
3
4
5
t (h)

FIG. 7

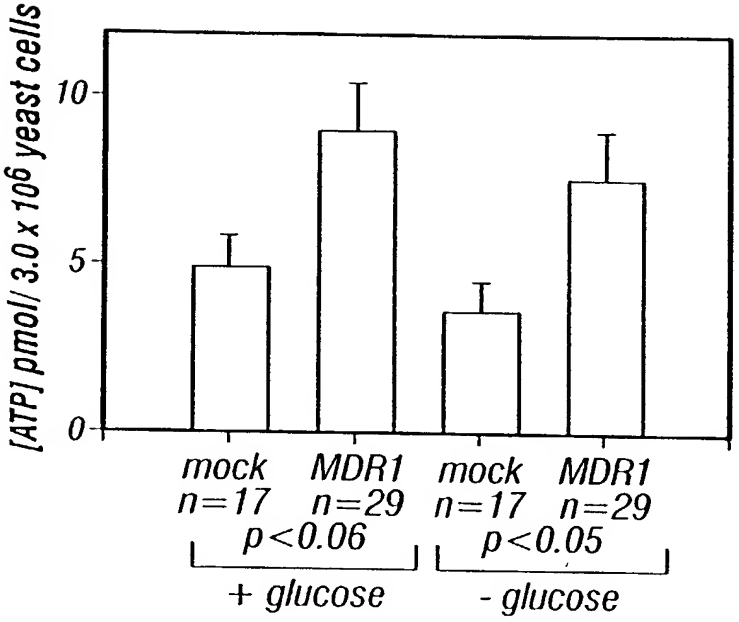
[ATP] pmol/ 3.0 x 10^6 yeast cells
10
5
0
mock
MDR1
mock
MDR1
n=17
n=29
n=17
n=29
p<0.06
p<0.05
+ glucose
- glucose

FIG. 8

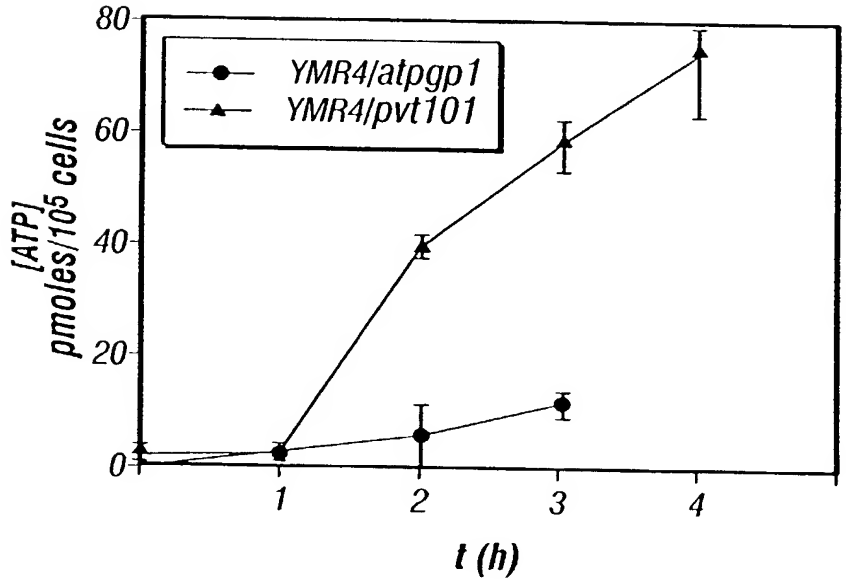
80
60
40
20
0
YMR4/atpgp1
YMR4/pvt101
[ATP] pmoles/10^5 cells
1
2
3
4
t (h)

FIG. 9

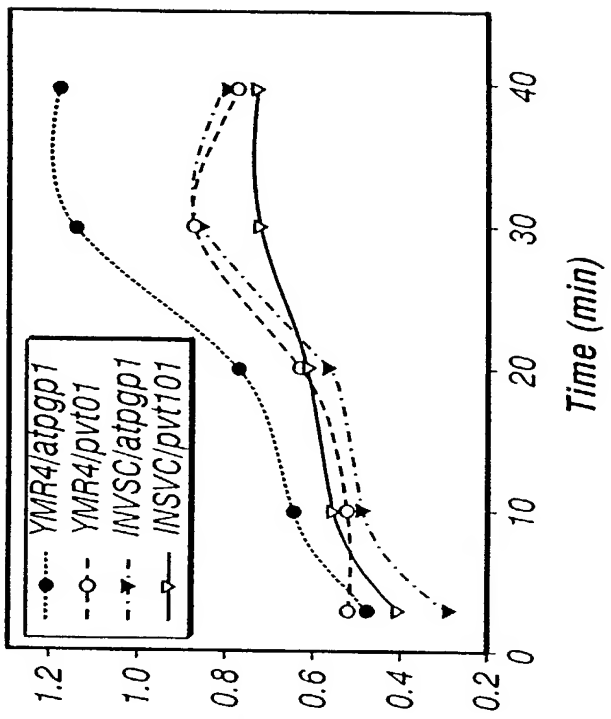
YMR4/atpgp1
YMR4/pvt01
INVSC/atpgp1
INSVC/pvt101
1.2
1.0
0.8
0.6
0.4
0.2
0
10
20
30
40
Time (min)
Extracellular 3H-adenosine (c.p.m.)
Intracellular 3H-adenosine (c.p.m.)

FIG. 10

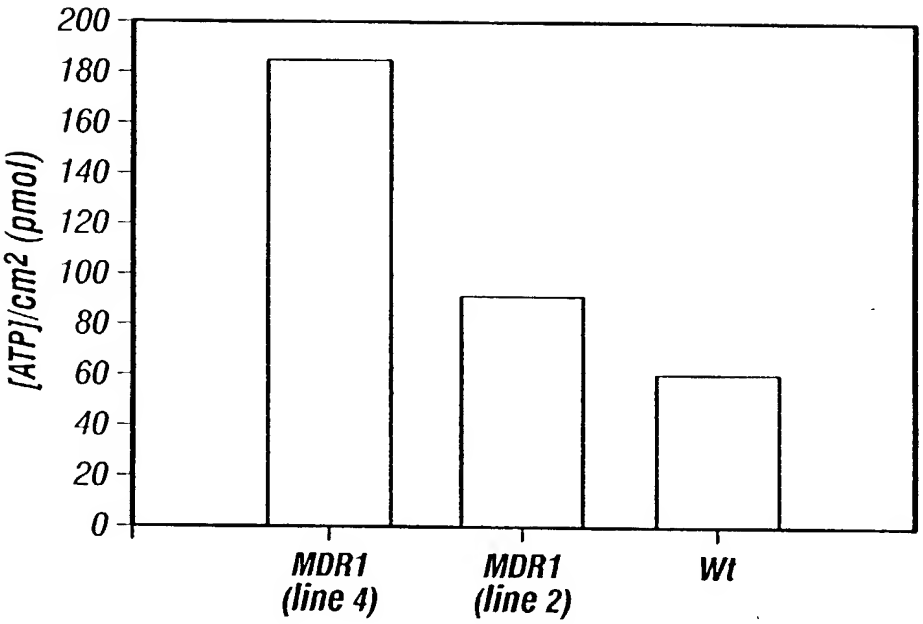
200
180
160
140
120
100
80
60
40
20
0
[ATP]/cm2 (pmol)
MDR1 (line 4)
MDR1 (line 2)
Wt

FIG. 11

No Treatment
Cycloheximide
P.I.
P.I. + Cycloheximide
MDR1 OE
Wt
100/100
50/2
83/90
0/0
MDR(%germination) / Wt(%germination)

FIG. 12

	Drug selected Cells	Cells cultured only on Media
Cycloheximide		
ym4mdr1	0.754	0.014
ymr4 pvt	0.017	0.016
inv scmdr1	0.683	0.013
inv sc pvt	0.985	0.005
ATP+cycloheximide		
ym4mdr1	0.001	0.001
ymr4 pvt	0.002	0.001
inv scmdr1	0.001	0.002
inv sc pvt	0.001	0.002
ATP		
ym4mdr1	0.016	0.585
ymr4 pvt	0.001	0.697
inv scmdr1	0.271	1.267
inv sc pvt	0.052	0.213
Media alone		
ym4mdr1	1.477	1.478
ymr4 pvt	1.437	1.484
inv scmdr1	1.498	1.483
inv sc pvt	1.488	1.435

FIG. 13

Media alone

ymr mdr1	1.376
ymr4 pvt	1.429

Cycloheximide

ymr mdr1	0.937
ymr4 pvt	0.001

PQ_4 alone

ymr mdr1	1.351
ymr4 pvt	1.341

PQ_4 and Cycloheximide

ymr mdr1	0.541
ymr4 pvt	0.001

Adenosine alone

ymr mdr1	1.319
ymr4 pvt	1.354

Adenosine and Cycloheximide

ymr mdr1	0.632
ymr4 pvt	0.002

Adenoside and PQ_4 alone

ymr mdr1	0.899
ymr4 pvt	1.342

Adenoside and PQ_4 and Cycloheximide

ymr mdr1	0.389
ymr4 pvt	0.001

FIG. 14